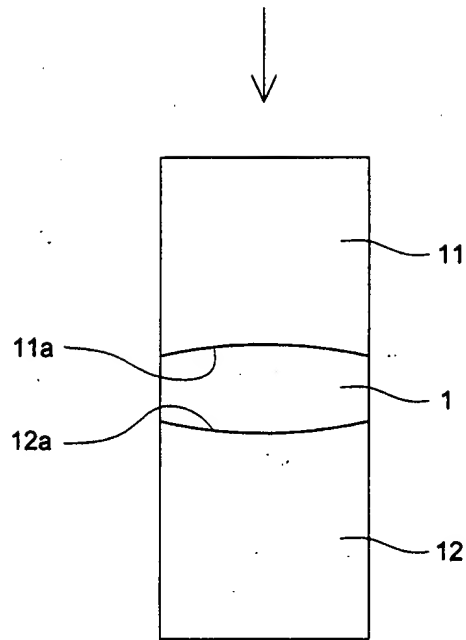
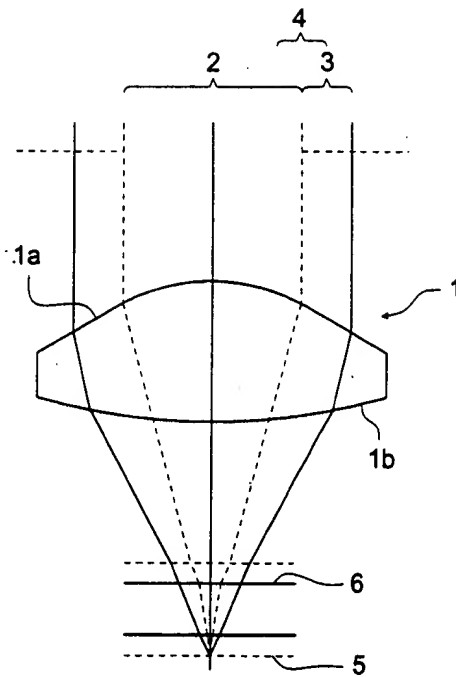


FIG. 1



008260" 65807960

00000000000000000000000000000000



008260" 68807950

1  $\mu$ m

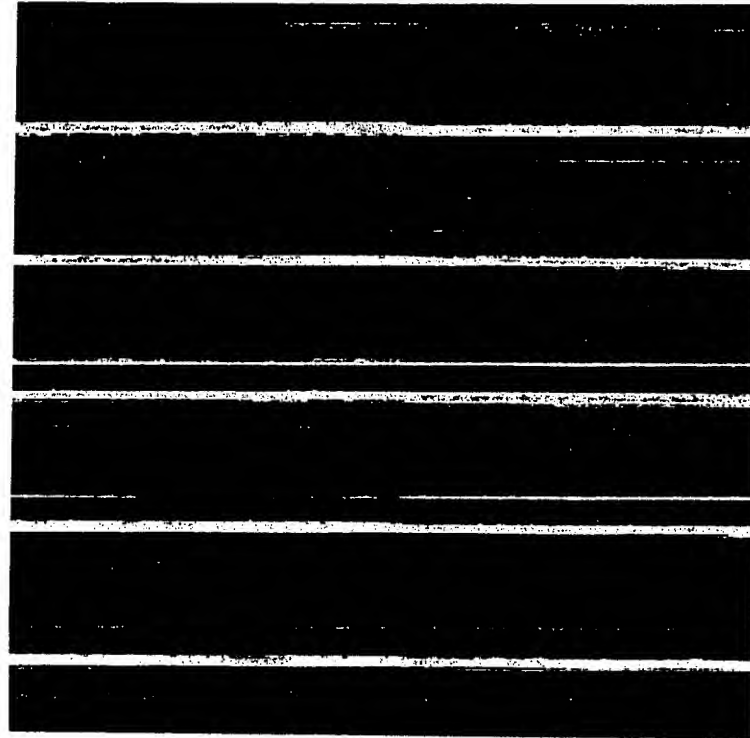


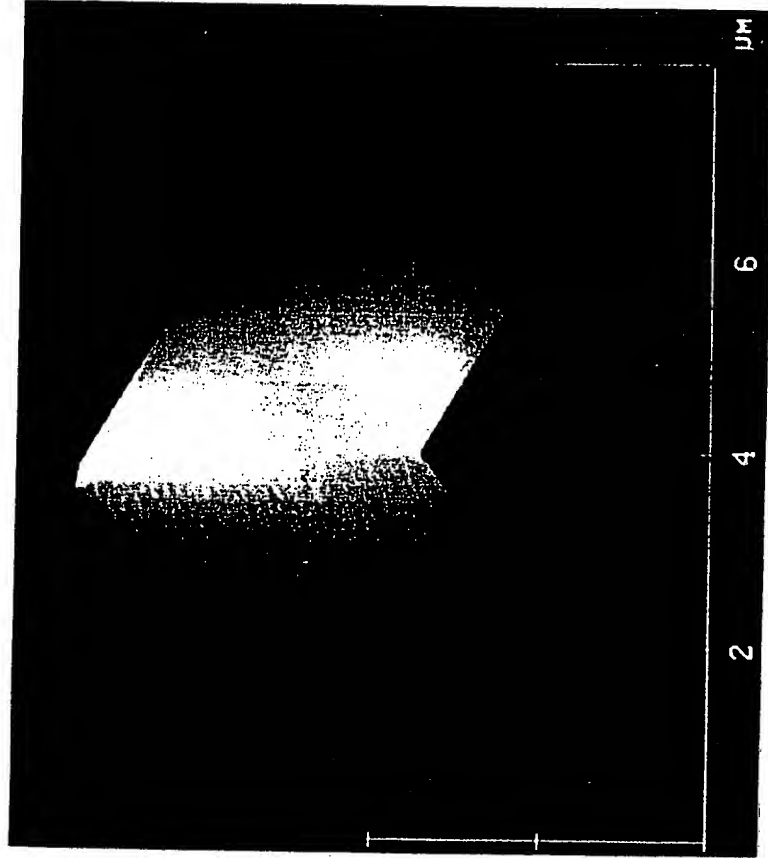
FIG. 3

Cut new mold material after 3 km length cutting

008260" 6E80/960

1  $\mu$ m

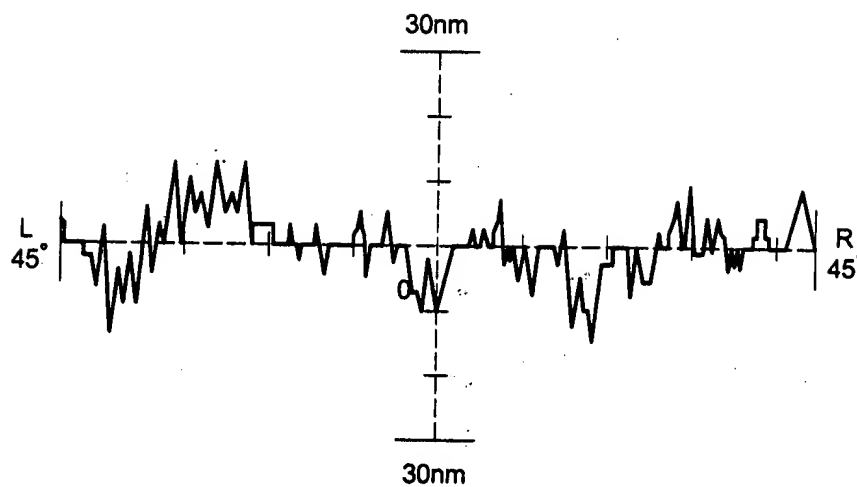
FIG. 4



Diamond tool cutting edge after 3 km length new mold material cutting

FIG. 5

008260" 6E807960



008260" 65807960

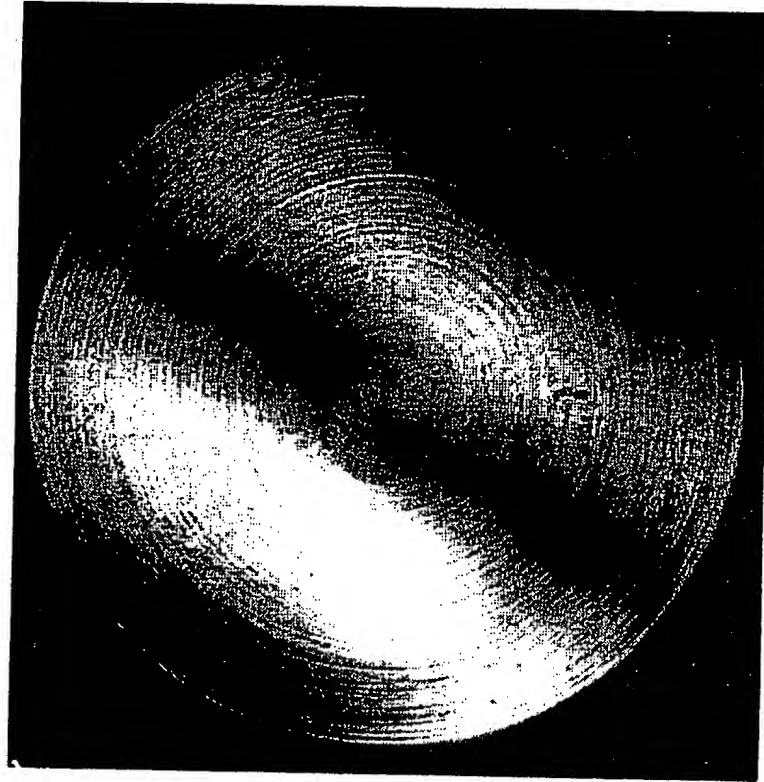
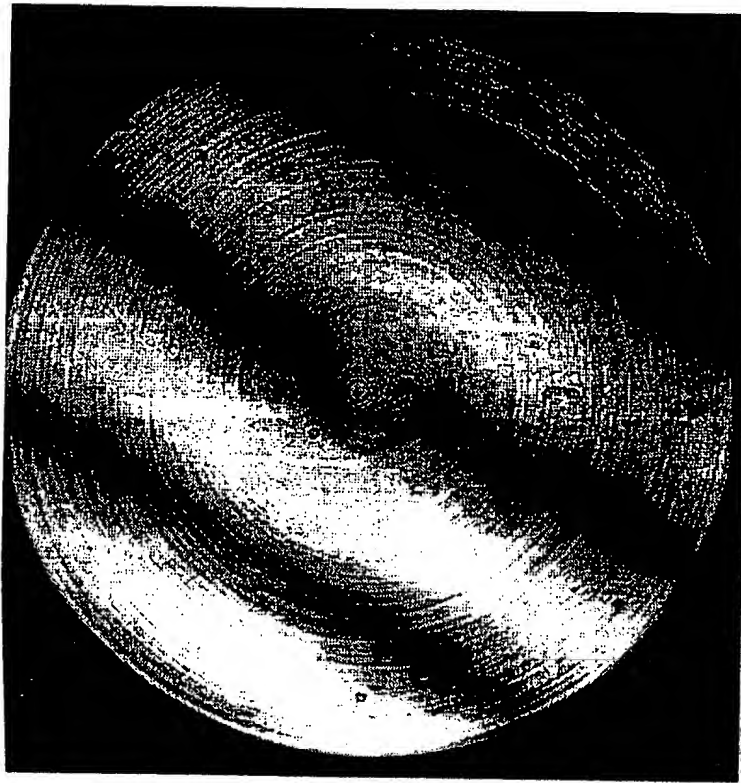


FIG. 6

Interferogram of cut Aluminum sphere  
by new diamond turning machine

008260" 6E807960

FIG. 7



Interferogram of cut Al sphere after 6 hours  
by new diamond turning machine

FIG. 8

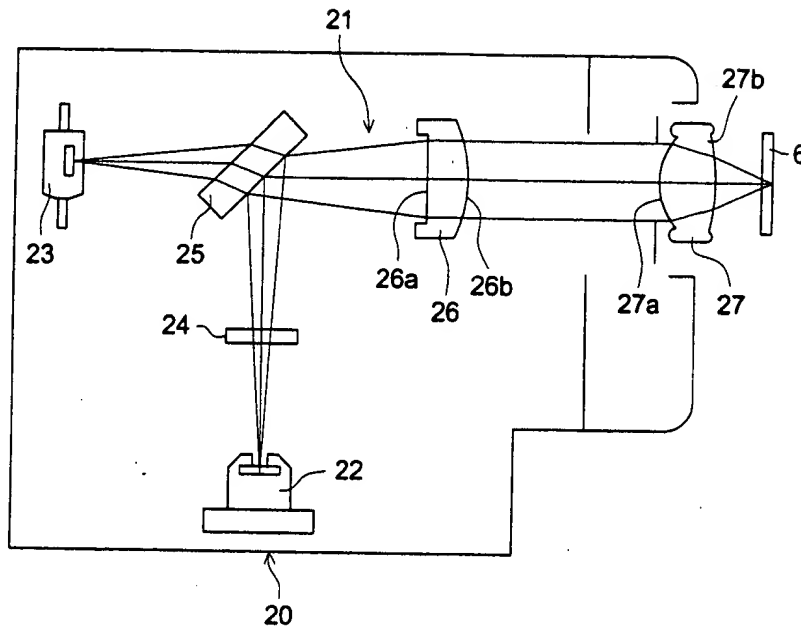
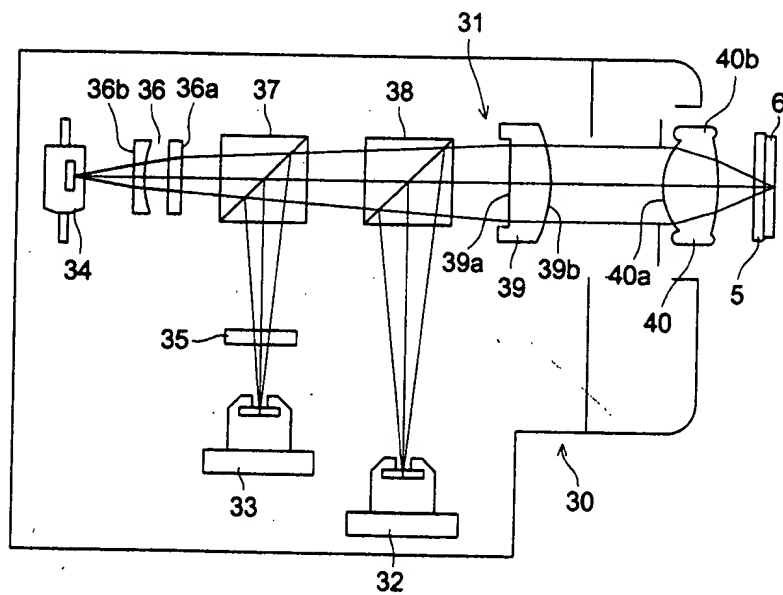


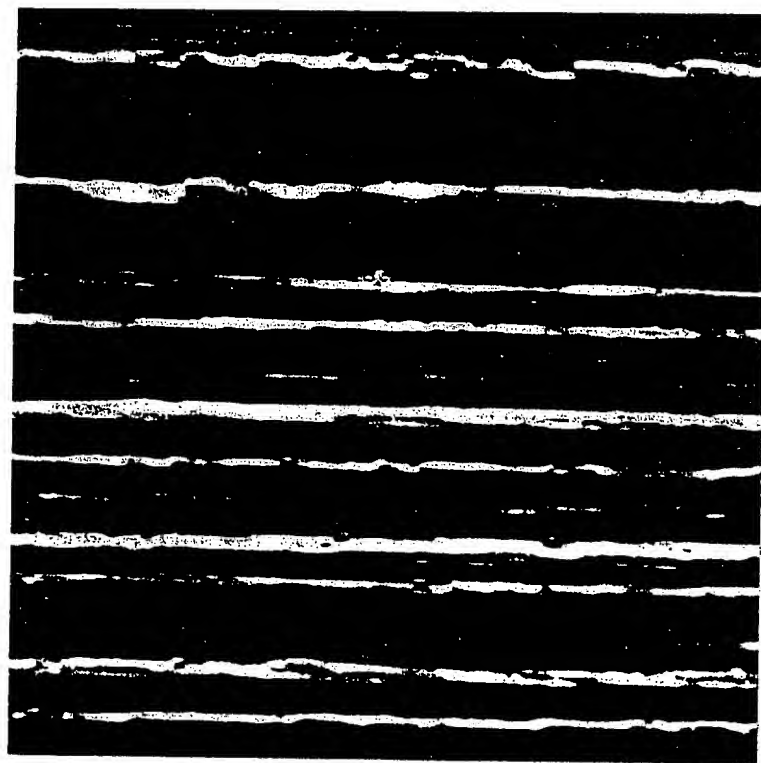
FIG. 9





008260\* 68907960

1  $\mu$ m



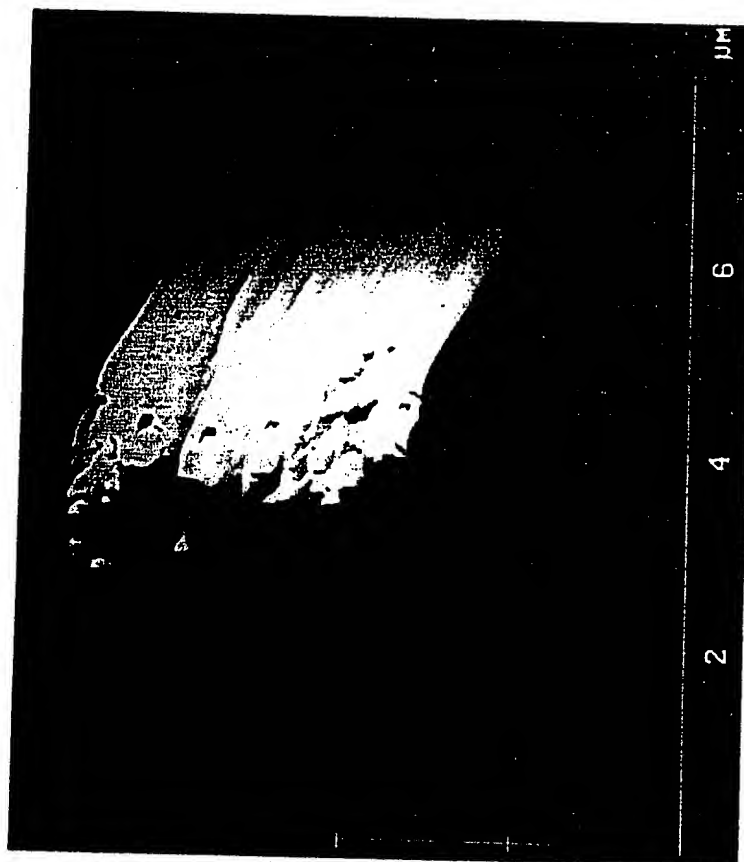
Cut ENP surface after 3 km length cutting

FIG. 10

008260" 6E80/950

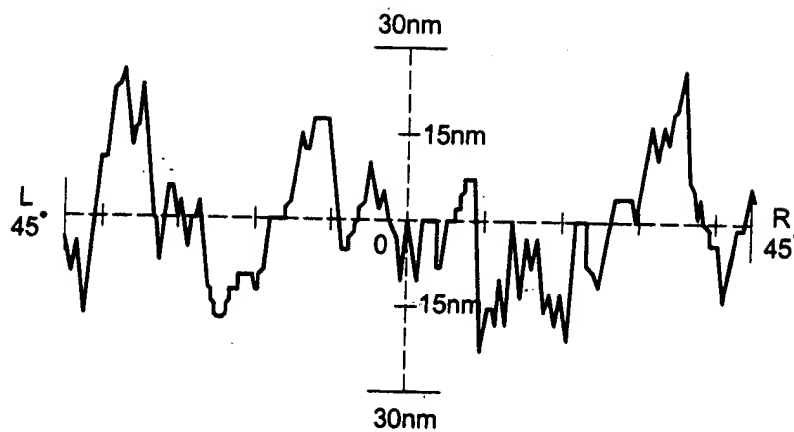
1  $\mu$ m

FIG. 11



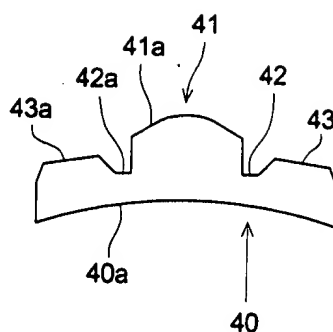
Diamond tool cutting edge after 3 km length ENP cutting

FIG. 12



008260" 65807960

FIG. 13



008260 65807960